CCR Number: 0009 CRITICALITY: ROUTINE DUE: 03/13/98

DISTRIBUTION SHEET EO-1 LEVEL II CCB

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NEW MILLENNIUM PROJECT CONFIGURATION CHANGE REQUEST

-													
PROGRAM <u>EQ-1</u>			TITLE CHANGES TO EO-1 S/C ALI ICD-18 REV A ORIGINATOR M. Jurotich/GSEC										
DATE INITIATED			ORIGINATOR'S CHG. NO. EO-1 ICD-018-A										
DUE DATE		SPONSOR/CODE A4 1 11 1/20 1 2 1 1/20 1 2 1 1/20 1 2 1 1/20 1 2 1 1 1/20 1 2 1 1 1/20 1 2 1 1 1/20 1 2 1 1 1 1/20 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1											
EFFECTIVITY			CHANGE CLASS TYPE OF CHANGE										
ITEM:	N.I.			-E 0E-100	1 11	İ	LESTONE		INTERFACE	X		_	
S/N			RELIN	MINARY			CUMENT	X	POWER		SOFTWARE OTHER		
ITEM:		<u> </u>	ORMA				ST		WEIGHT				
S/N			DOCUMENTS OR SOFTWARE AFFECTED EO-1 ICD-018-A										
	···		:O-1	ICD-018-	-A								
ITEM:													
S/N_													
PROBLEM					"						· · · · · · · · · · · · · · · · · · ·		
The attached Control Docum	Prelii nent	minary Interfac	e Rev	vision No	tice (PII	RN)	to EO-1 IO	CD-018	(Rev A,) E	O-1 S/0	ALI Interfac	е	
Control Document (ICD) provides for changes to the Interface document. This PIRN includes suggested changes that will be incorporated as an Interface revision and will be officially documented as such. The PIRN													
will become an official interface change once the EO-1 project Configuration Control Board (CCB) chairman													
signs this CCR and the attached PIRN.													
PROPOSED SOL		=	-				· · · · · · · · · · · · · · · · · · ·		<u> </u>			······	
Approve the attached PIRN 001 to EO-1 ICD-0018 Rev A, by the EO-1 Level II Configuration Control Board												t	
(CCB). The signed off PIRN will serve as the official approval of changes to this ICD. Future changes will be initiated by submittal of Configuration Change Requests (CCRs) and Preliminary Interface Revision Notices													
(PIRNS) for CCB approval. This document is maintained by the EO-1 Configuration Management Office													
(CMO).													
BOARD ACTIO	- NI	APPROVAL LE	/EI	Lapiria									
	,	REQUIRED	VEL	CRITICA	LITY LEV	/EL	PROC	JREMEN	IT CHANGE O	RDER CL	ASSIFICATION		
APPROVE WITH		LEVEL I HQS		EMER	GENCY		ROUTINE		URGENT		EMERGENCY		
CHANGE		LEVEL II GSFC	X	URGE	NT		OPTION 1		OPTION 1				
DISAPPROVE		LEVEL III		ROUTI	NE	X	OPTION 2		OPTION 2				
WITHDRAW													
COMMENTS													
paperon to incorporate PIRNOOI													
COMMENTS Approve to encorporate PIRN 001 Conto ICO-18													
A M													
CHAIRPERSON // DATE 15 MAY 78													

GODDARD SPACE	1. PAGE	1	OF	2					
PRELIMINARY SPECIFICATION CHANGE NO	2.INI	2/24/98							
or PRELIMINARY INTERFACE REVISION NOTI	3. CONTRACT NUMBER								
4. ASSOCIATED	5. CI'S AFFECTED:	6. D	OCUMENT	NUMBE	R:				
CONTROL NUMBERS:EO-1CCR 0009	SC TO ALI ICD-018 Rev A	REVISION:							
7. DESCRIPTION OF CHANGE:									
1.Section 3.2 Mechanical Interface	Requirements: Change								
From: "The ALI instrument consist units, and interface cabling."	s of the telescope, telescope	shrou	ıd and	two el	.ectronio				
To: "The ALI instrument consists units, and internal interface cablifrom the FPE to the FODB Instrument									
2.Figure 3.1 EO-1 Configuration Delete: I/F Bracket									
3.Section 3.2.2.1 Mass: Add: The f Lincoln Lab flight Deliveries shall		st par	agraph	: "Mas	s of all				
4. <u>Add</u> : The following section: 3.2.2 harness from FPE to FOD B Instrumer or less.	2.1.1 <u>ALI Mass:</u> The mass of the at Terminal. The mass of the A	ALI LI sh	is with	hout F 93 ki	lS 422 .lograms				
5.Add: The following section 3.2.2. the FPE to the FODB Instrument Term			422 h	arness	from				
6.Change Section 3.2.2.2 Center fo From: "The CG of instrument shall be corners at (-1, 0, 8) and 1, 5.5 TE	e within the volume defined by				x with				
To: "The CG of instrument shall be within the volume defined by a right angle box with corners at (-1, 0, 8) and 1, 6.5, 12) inches in the ALI coordinate system."									
7.Change section 3.2.2.3 Moment of Inertia From: "The moment of inertia (MOI) and products of inertia of the instrument shall be"									
To: "The moment of inertia (MOI) ar	nd products of inertia of the A	LI sł	all be	"					
8. <u>Delete:</u> TBR referenced in Section	3.2.4.1, <u>Heat input to Instru</u>	ment	Radiat	ors					
9. <u>Delete:</u> TBR referenced in Section	3.2.4.5, <u>Survival Heaters</u>								
10. <u>Delete:</u> TBR referenced in Section	on 3.2.10, <u>Nitrogen Purge</u>								
PREPARED BY: S.Schneider/EO-1 CMO	ORIGINATING ORGANIZATION APPROV	AL: OF	GANIZAT	'ION:	DATE:				
HST CCB ACTION	SIGNATURE:	DA	TE: /<	MAY	 7 9				
√	1/2	267	MINITES NO.						

APPROVED:

DISAPPROVED:

GODDARD SPACE FLIGHT CENTER EO-1

PSCN ____ PIRN <u>001</u>

Associated control number: EO-1 CCR-0009 CI's affected: SC to ALI ICD -018 Rev A Date: February 24, 1998 Page 2 of 2

11.<u>Add:</u> The following to Section 3.2.10 <u>Nitrogen Purge</u>: The purge connector shall be at a connector as shown in ALI Interface Control Drawing A0750. Same bracket as for the survival heaters.

12. Change Section 3.3.1 <u>Electrical Interfaces</u>

From: An RS422 science-data interface connector panel will be located on the instrument pallet near the -X, -Y corner of the pallet, as shown in ALI Interface Control Drawing A0750. Power and 1773 connections are at the ALICE electronics box. The power connection for the electronic box survival heaters is also at the interface panel. Figure 3-5 is an electrical block diagram for the ALI.

To: The shape of the RS 422 harness from the FPE to the FODB Instrument Terminal shall be determined by routing the harness on the Lincoln Labs high fidelity mock up. Lincoln Labs shall respect the keep out zones as shown in ALI Interface Control Drawing A0750. Power and 1773 connections are at the ALICE electronics box. The survival heater connector shall be at a connector bracket as shown in ALI Interface Control Drawing A0750. Same bracket as for the purge.

- 13.Delete: TBR in Section 3.3.2.2.1 Power Distribution
- 14. Change Section 3.3.4.1 Description

<u>From:</u> The instrument provider will fabricate, qualify, and provide to the spacecraft integrator all instrument interconnecting flight harness. The spacecraft provider will supply harnessing up to the electrical interface plate and up to the ALICE box (1773 and power).

To: Lincoln Labs will fabricate, qualify, and provide all ALI internal harness (i.e. from ALICE to FPE etc..) and the survival heater harness up to the connector bracket as shown in ALI Interface Control Drawing A0750. Lincoln Labs will fabricate, qualify, and provide the RS 422 FPE to FODB Instrument Terminal harness. The spacecraft provider will supply harnessing up to the connector bracket and up to the ALICE box (1773 and power).

- 15. Delete: TBR in Section 3.3.4.2 Connectors
- 16. Delete: TBR in Section 3.3.5.3 ESD
- 17.<u>Add:</u> The following to after "ALI STM Unit" in Section 4 <u>Deliverables</u> ALI STM RS 422 harness from FPE to FODB Instrument Terminal 8/1/98